

Exceptional service in the national interest



Ride-along data LOS 130, 170 & LOS330 shots z3091, 3092, 3093, 3094 and z3095.

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Requesting unlimited release to:

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University of Nevada, Reno:

Roberto Mancini (professor, advisor), Dan Mayes (graduate student)

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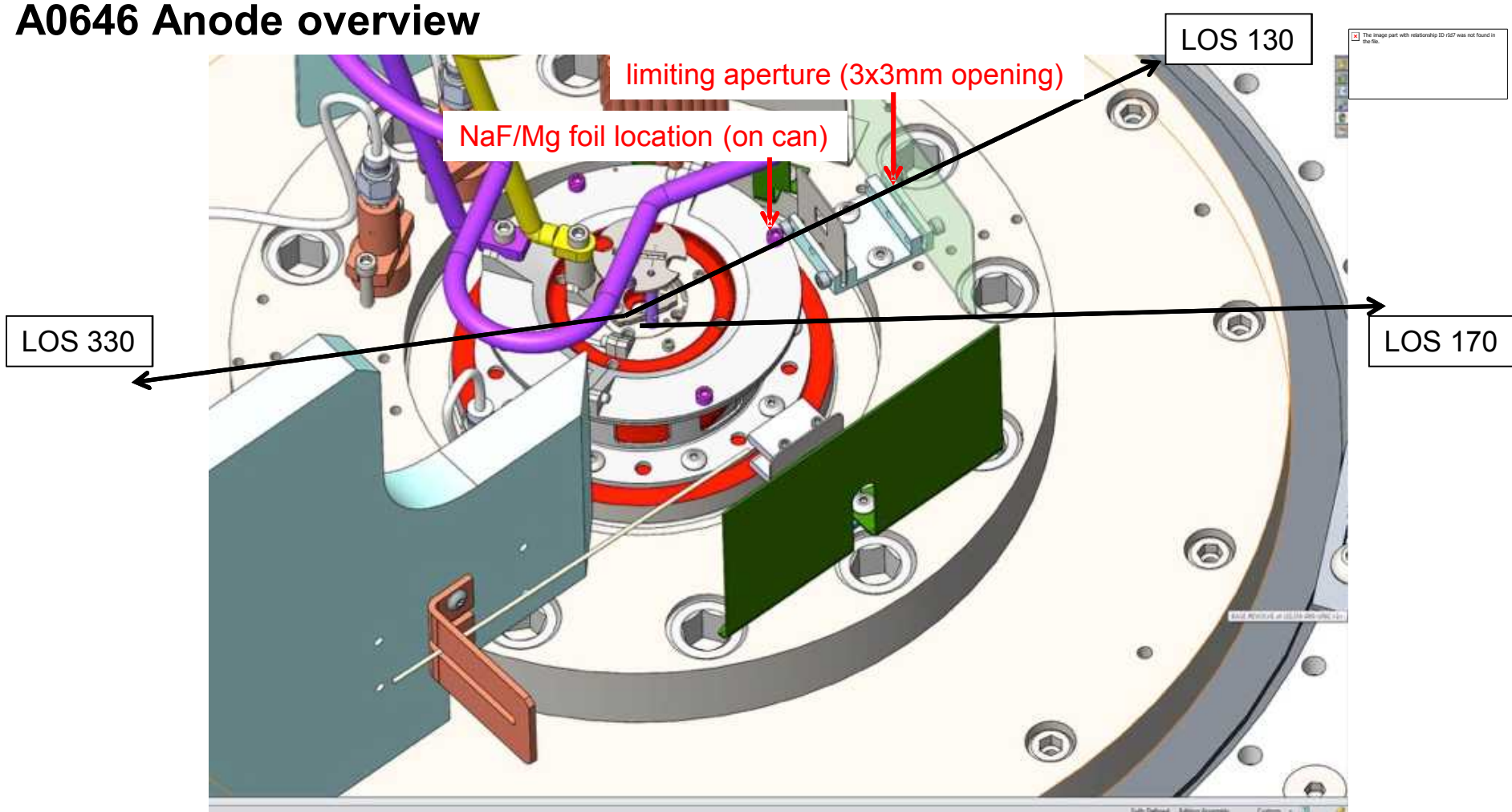
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- Each instrument records the x-ray emission from the Z-pinch dynamic hohlraum (ZPDH):
- LOS 130 TIXTLs instruments record the absorption of the pinch backlighter through an expanding NaF/Mg foil.
 - LOS 170 MLM instruments record monochromatic images at 276 and 528 eV energies near and before ZPDH stagnation time.
 - LOS 330 TREX 6A & B: recoded time resolved absorption spectra from a radiatively heated Ne gas.

Effective shot sequence:

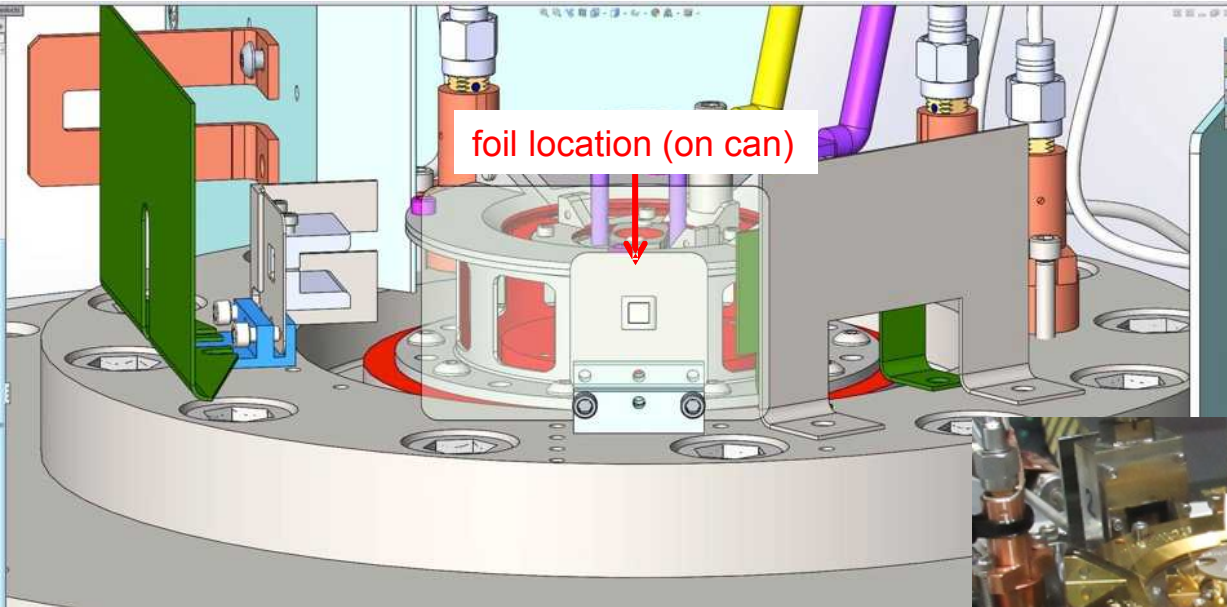
	z3091	z3092	z3093	z3094	z3095
LOS 130 tixtls RL,RR KAP and RAP crystals, spectral range 6-18Å	Not fielded	Not fielded	NaF/Mg foil 11µm Be tamping with 17µm CH tamping placed on can. (no spectra recorded)	NaF/Mg foil 15.5µm Be tamping with 26µm CH tamping placed on can	NaF/Mg foil 11µm Be tamping with 17µm CH tamping placed on can
LOS 170 MLM 277eV and 528eV color imaging	Z- pinch dynamic hohlraum	Z- pinch dynamic hohlraum	Z- pinch dynamic hohlraum	Z- pinch dynamic hohlraum	Z- pinch dynamic hohlraum
LOS 330 TREX – elliptical KAP range 7-14Å Time resolved spectra	Ne gas cell 30 torr pressure	no gas, null shot	Ne gas cell 60 torr pressure	Ne gas cell 120 torr pressure	Ne gas cell 60 torr pressure

A0646 Anode overview



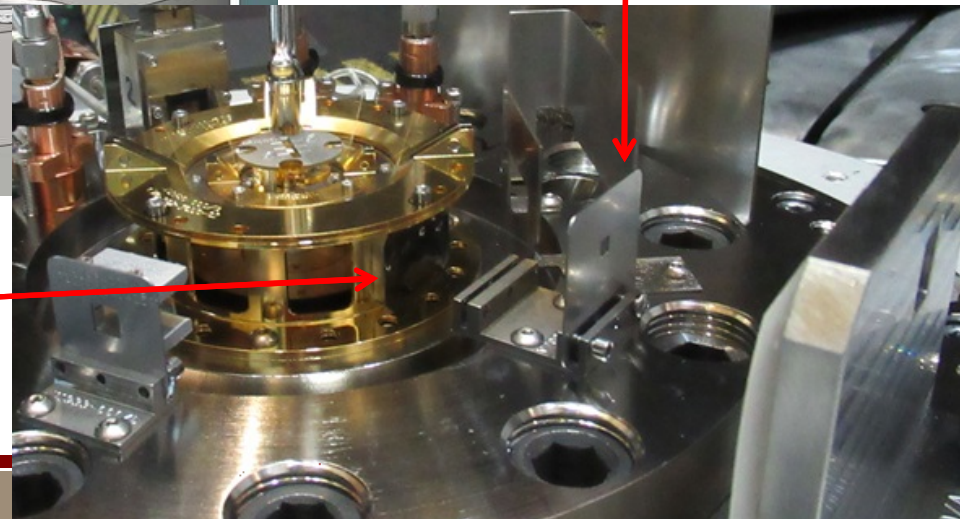
LOS 130, 12° LOS diagnostic view

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Limiting aperture

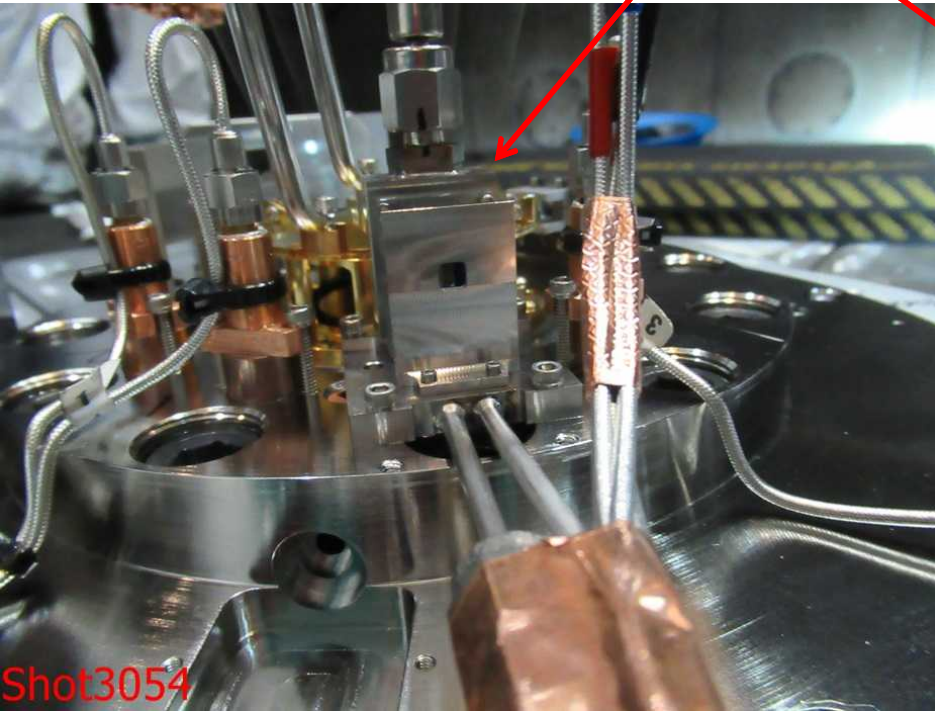
NaF/Mg foil on can
before shot



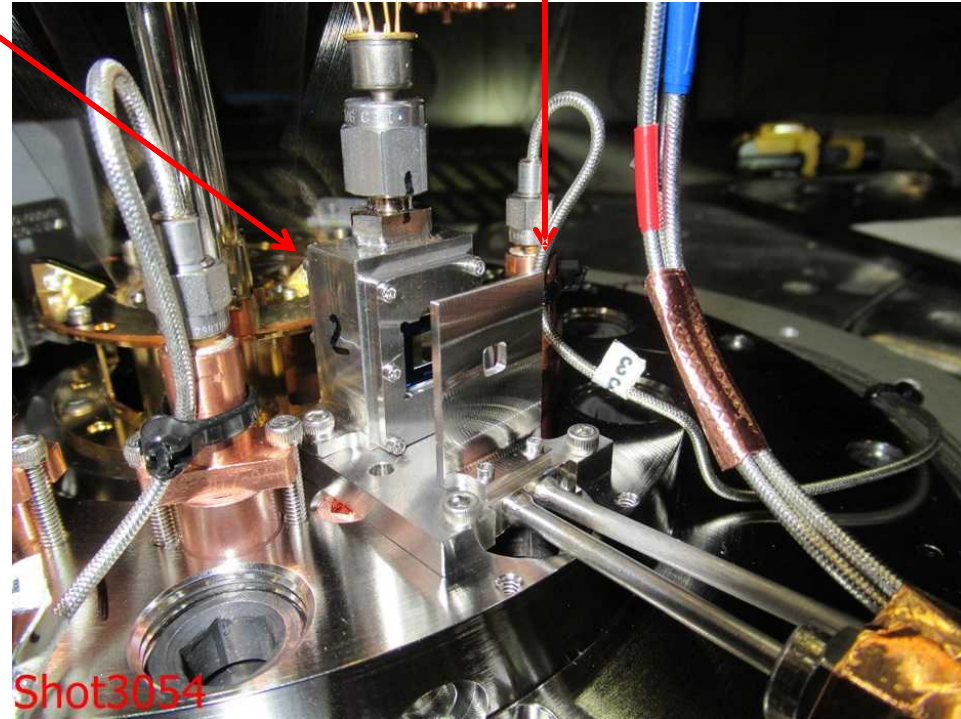
LOS 330, Ne gas cell shown on load

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gas cell



Limiting aperture

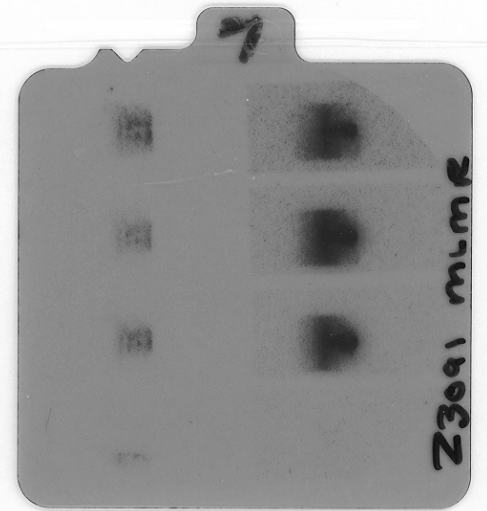
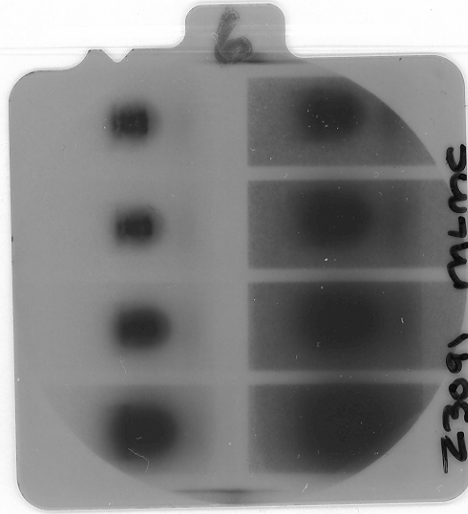
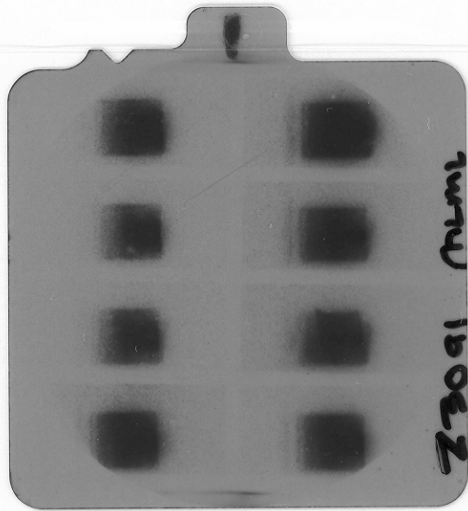


z3091 – LOS170
MLM R
MLM L
MLM C

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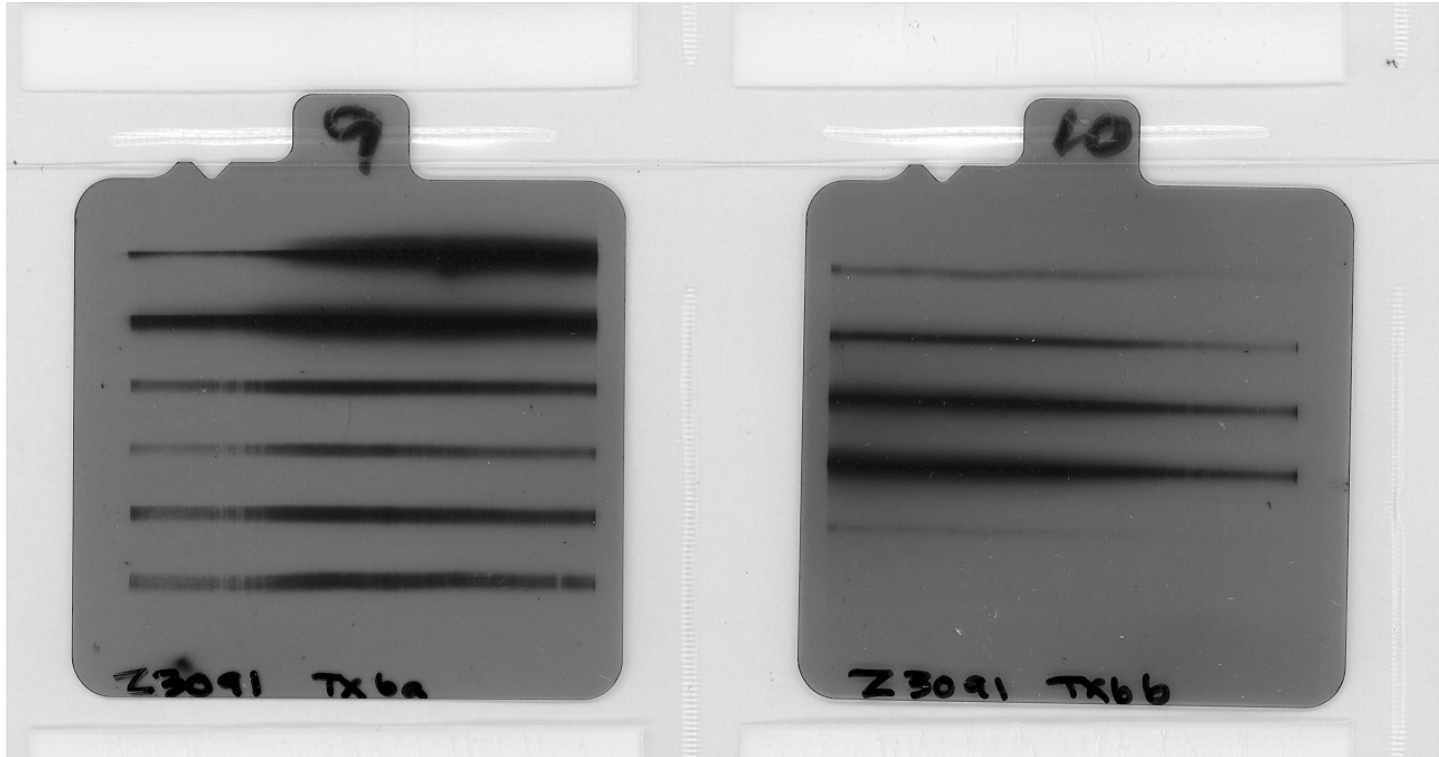
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z3091 – LOS330
TREX6A – TREX6B

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z3092 – LOS170

MLM R

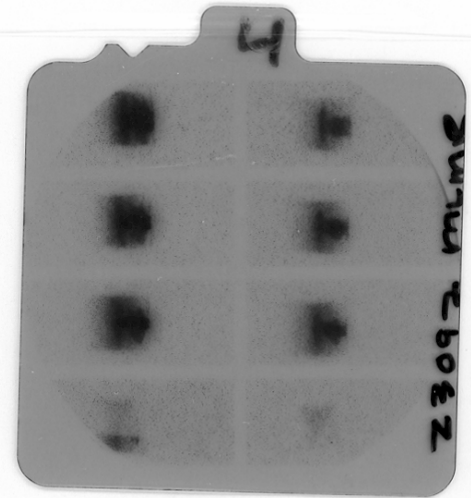
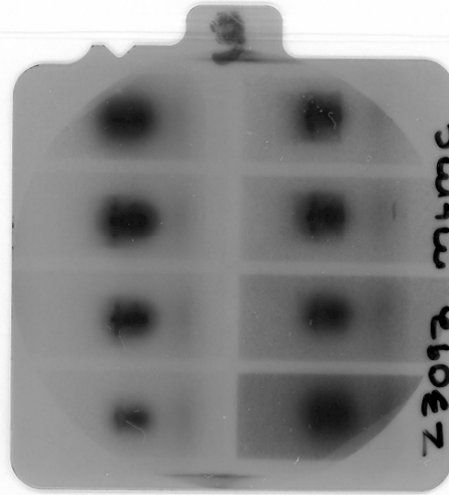
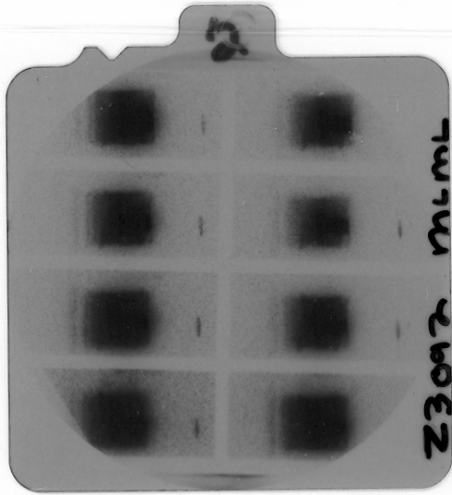
MLM L

MLM C

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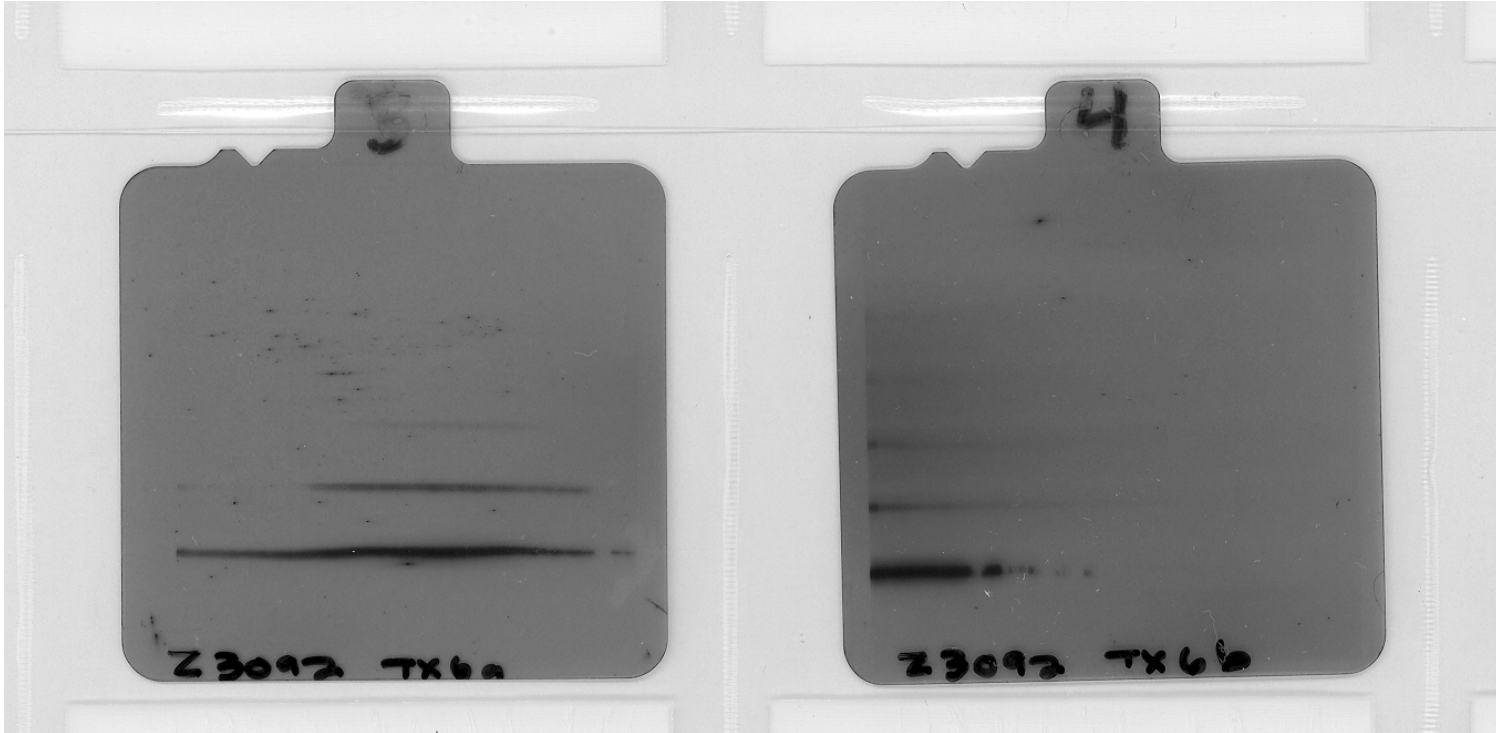
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z3092 – LOS330
TREX6A – TREX6B

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z3093 – LOS130

TIXTL RL

TIXTL RR

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Error in the instruments: no spectra recorded

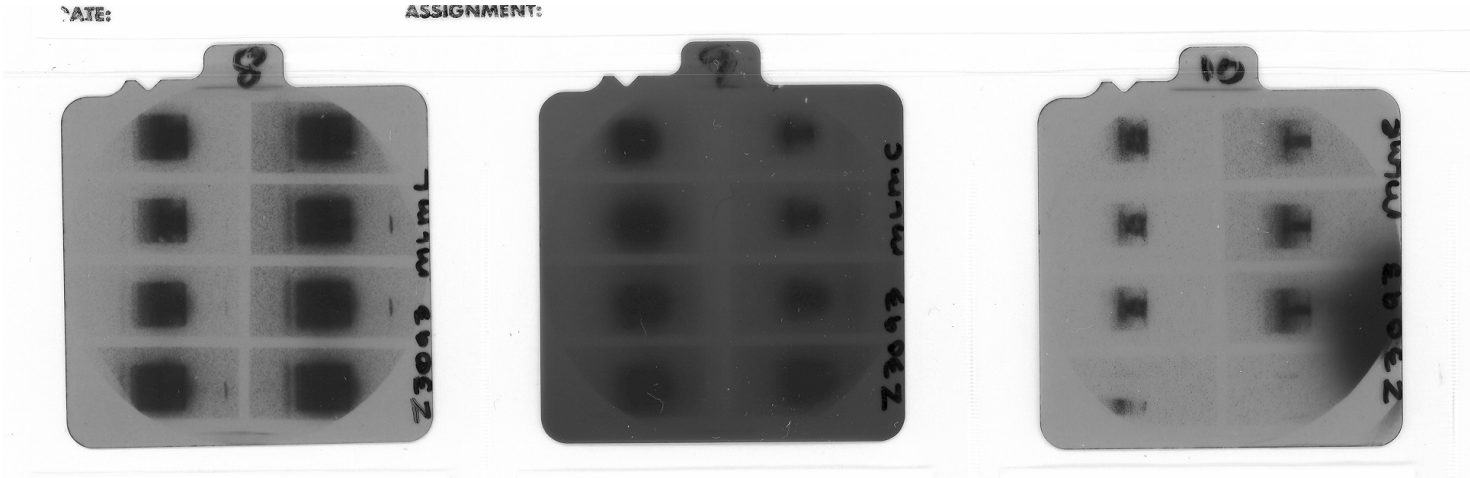
z3093 – LOS170

MLM R

MLM L

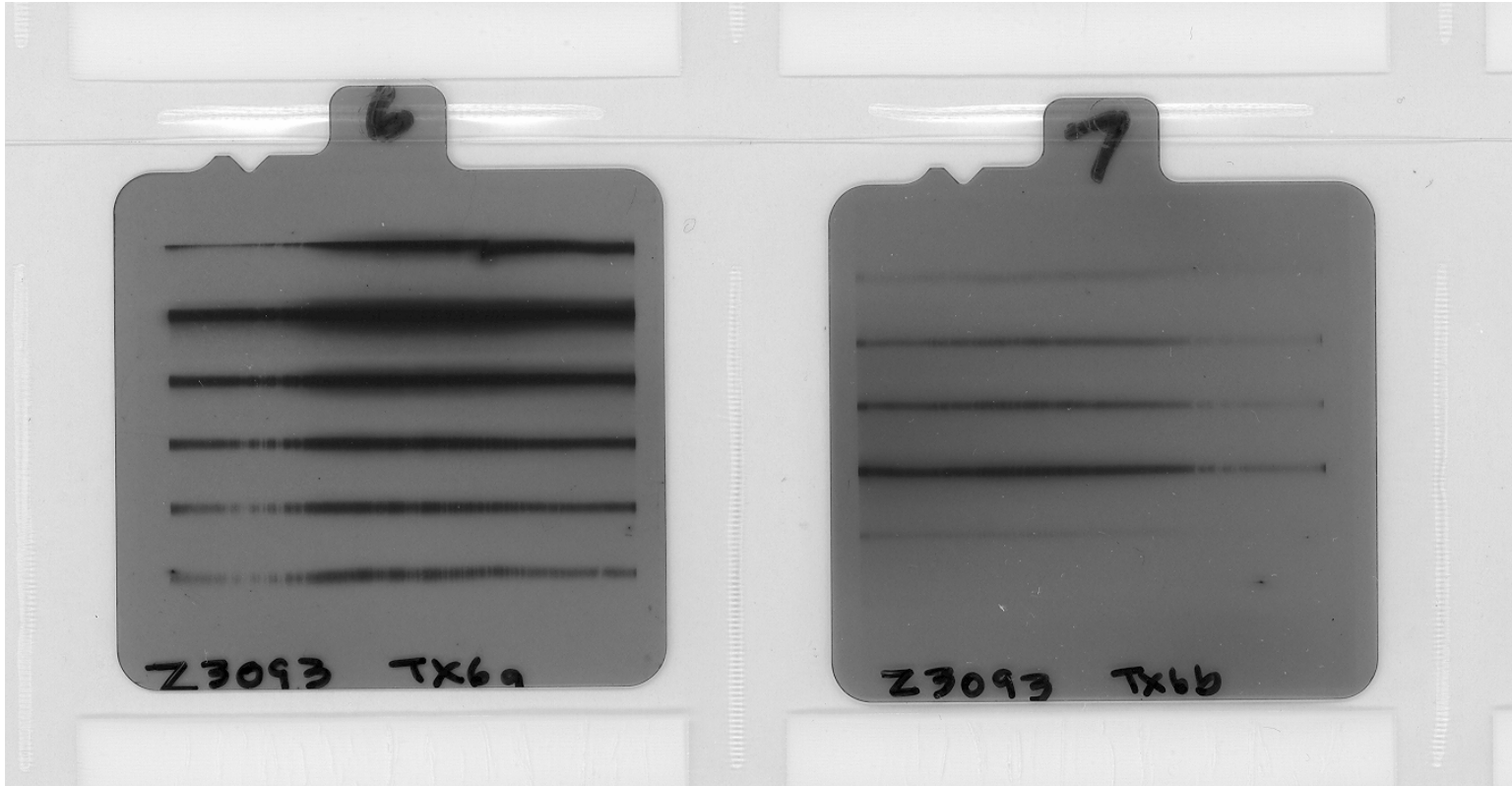
MLM C

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Z3093 – LOS330
TREX6A – TREX6B

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z3094 – LOS130

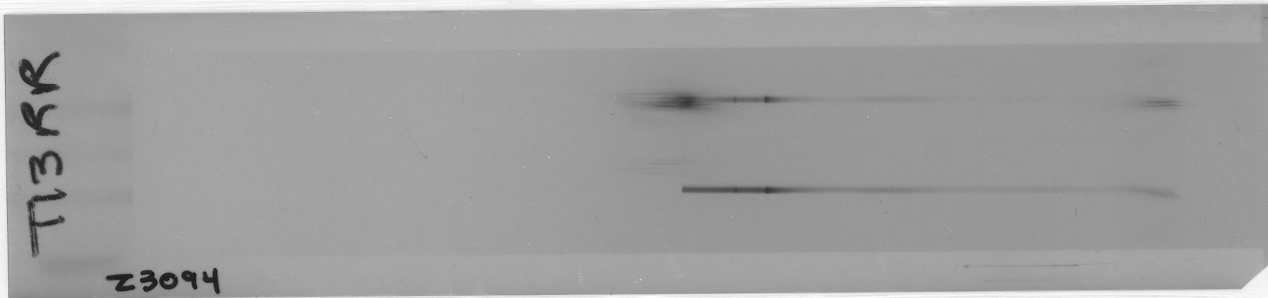
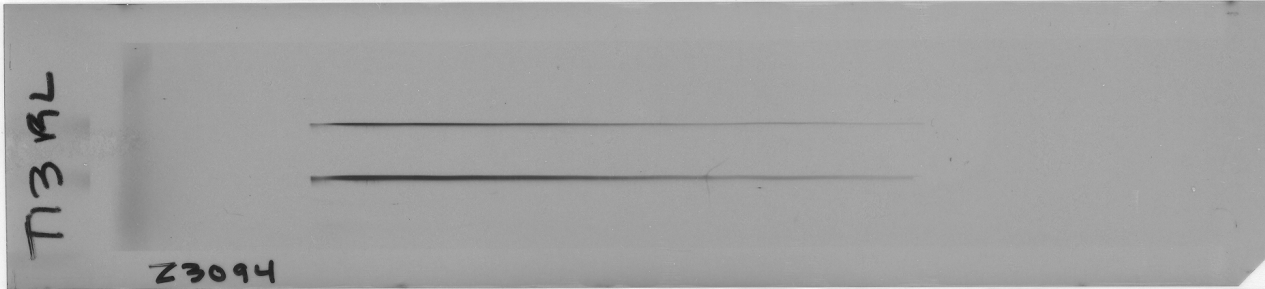
TIXTL RL

TIXTL RR

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ASSIGNMENT:

FILE NO:



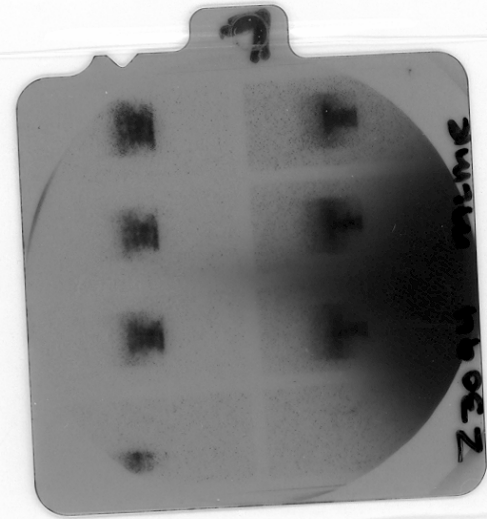
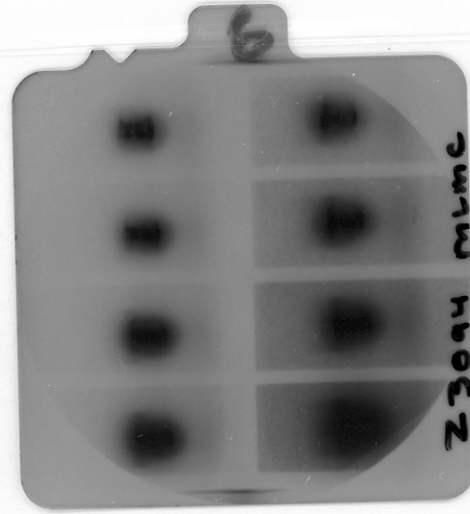
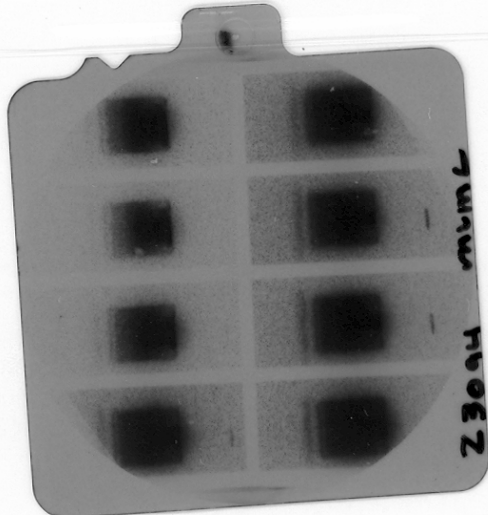
z3094 – LOS170
MLM R
MLM L
MLM C

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ARCHIVAL PRESERVERS

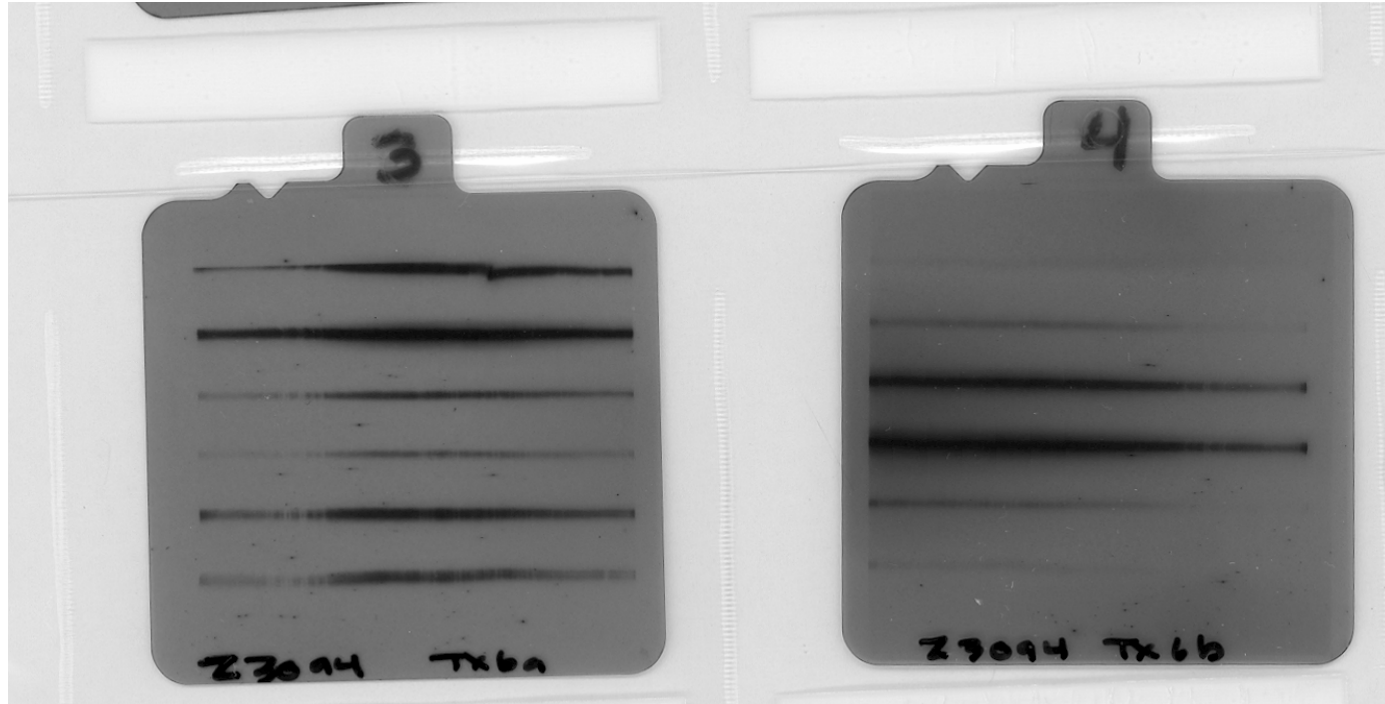
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z3094 – LOS330
TREX6A – TREX6B

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z3095 – LOS130

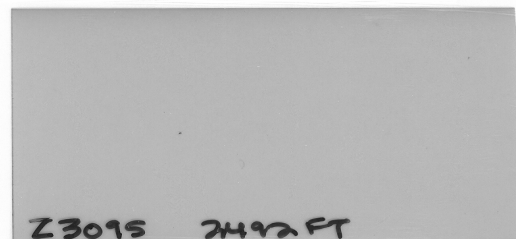
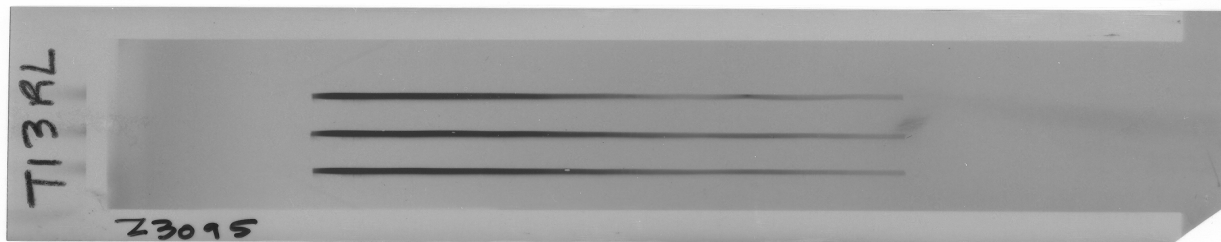
TIXTL RL

TIXTL RR

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FILE NO:

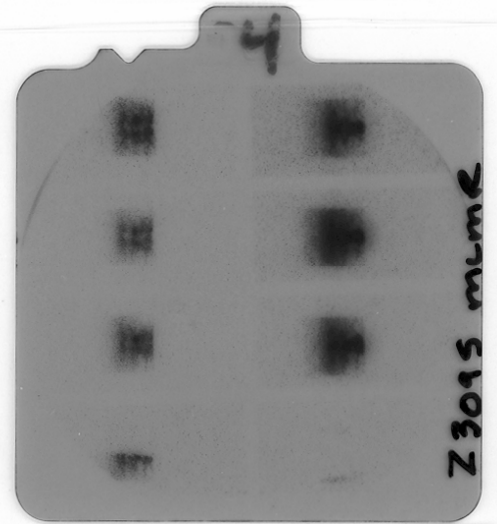
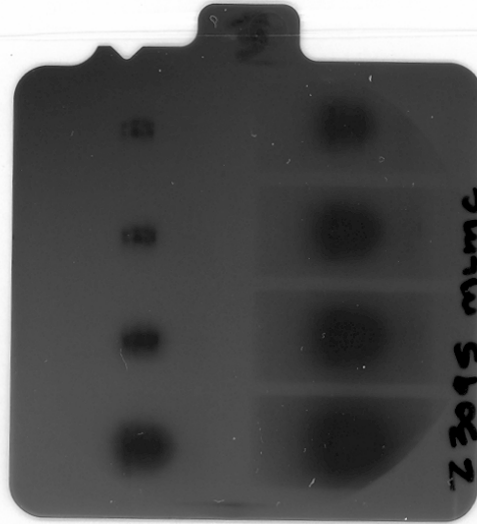
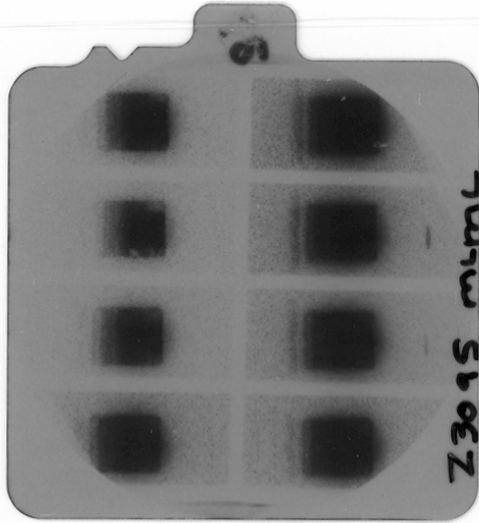


Z3095 – LOS170
MLM R
MLM L
MLM C

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DATE:

ASSIGNMENT:



z3095 – LOS330
TREX6A – TREX6B

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